	Application No.	Applicant(s)
Notice of Allowability	10/696,920	KIM ET AL.
	Examiner	Art Unit
	Linh M. Nguyen	2816
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendment filed 11/29/2004.		
2. The allowed claim(s) is/are 1,4-14,16-18,20-23,26 and 27.		
3. The drawings filed on 30 October 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	

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DETAILED ACTION

This is a reply to the Applicant's amendment submitted on 11/29/2004. According to this amendment, claims 2, 3, 15, 19, 24 and 25 are cancelled; and thus, claims 1, 4-14, 16-18, 20-23 and 26-27 are currently presented in the instant application.

Allowable Subject Matter

1. Claims 1, 4-14, 16-18, 20-23 and 26-27 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The closest prior art fails to disclose or fairly suggest:

- a) The delay locked loop circuit, in which one or more delay elements comprise(s) a plurality of transistors having different physical dimensions to provide a path for current flow from a common output node of a current source in response to assertion of an early phase signal, in combination with the remaining claimed limitations, as called for in claim 1; or
- b) A phase blending circuit encompassing a path which includes a branch for the flow of current from an output node only when the late phase signals is asserted and a current source is disabled regardless of a state of switches, as called for in claim 8; or
- c) A delay locked loop having a control logic configured to (i) determine if input and output signals are aligned within an accepted tolerance, (ii) if not, modify one or more control signals to couple a different one or more of delay elements to a common output node; and (iii) repeat steps (a)-(b) until the input and output signals are aligned within the accepted tolerance, in combination with the remaining claimed limitations, as called for in claim 14; or

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remaining claimed limitations, as called for in claim 22.

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d) A DRAM device, in which the one or more delay elements comprise(s) a plurality of transistors having different dimensions, in combination with the remaining claimed limitations,

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as called for in claim 18; or

e) A method for generating a phase signal including a step of closing one or more switches to selectively couple one or more of a plurality of delay transistors having different physical dimensions to a common output node of the current source, in combination with the

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh M. Nguyen whose telephone number is (571) 272-1749.

The examiner can normally be reached on Alternate Fri, Monday - Thursday from 7:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh M. Nguyen Primary Examiner Art Unit 2816

LMN